

ABSTRACT OF THE DISCLOSURE

The invention relates to a liquid crystal display utilizing a vertically aligned state of liquid crystal molecules when no voltage is applied and to a method of manufacturing the same. The invention is aimed at providing a liquid crystal display and a method of manufacturing the same in which the existing step for forming vertical alignment films can be omitted to achieve a cost reduction.

The liquid crystal display includes a monofunctional monomer having a structure expressed by X-R (where X represents an acrylate group or a methacrylate group, and R represents an organic group having a steroid skeleton). A liquid crystal material is sandwiched between substrates which is then irradiated with ultraviolet rays to cure the monofunctional monomer, thereby forming a polymer film at an interface of a substrate. The monofunctional monomer has a hydrophobic skeleton such as an alkyl chain and a photoreactive group on one side of the skeleton.